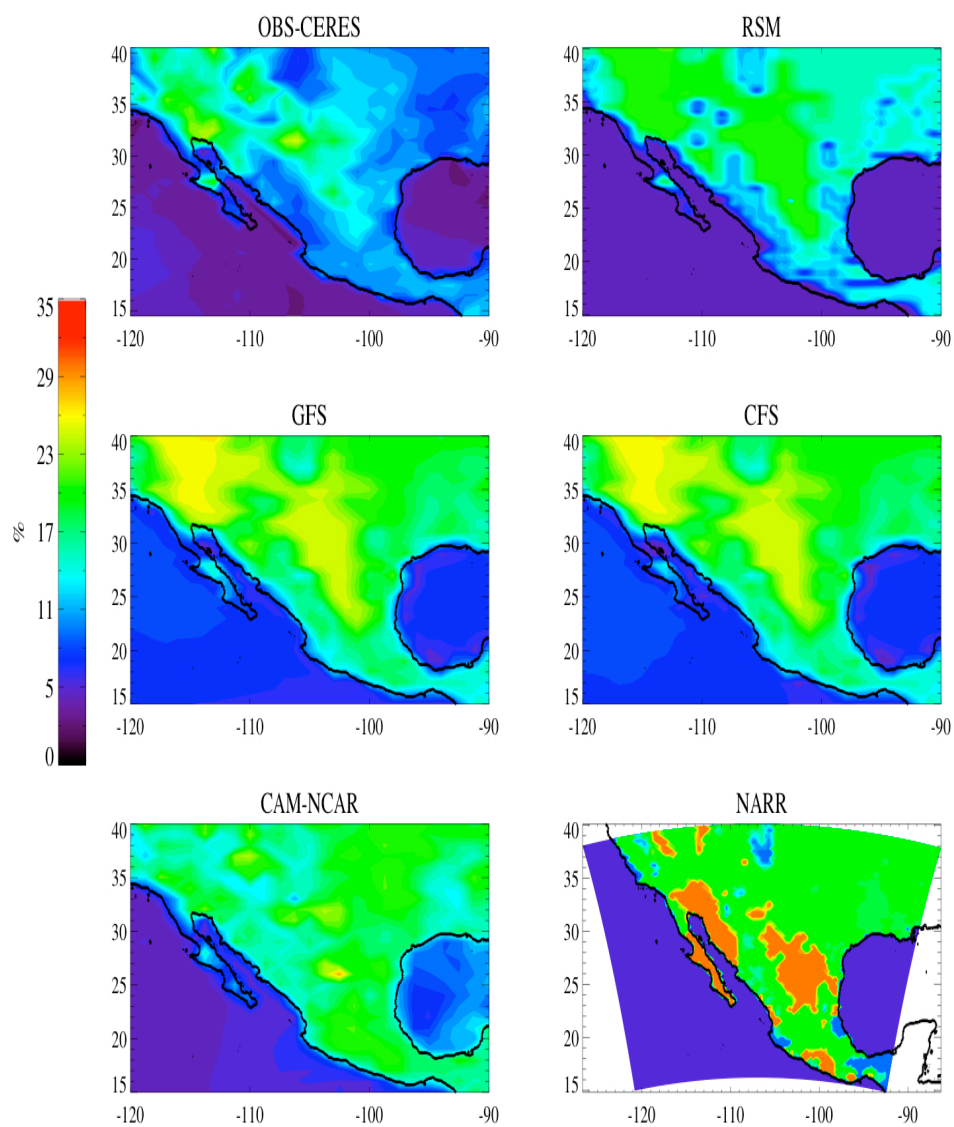


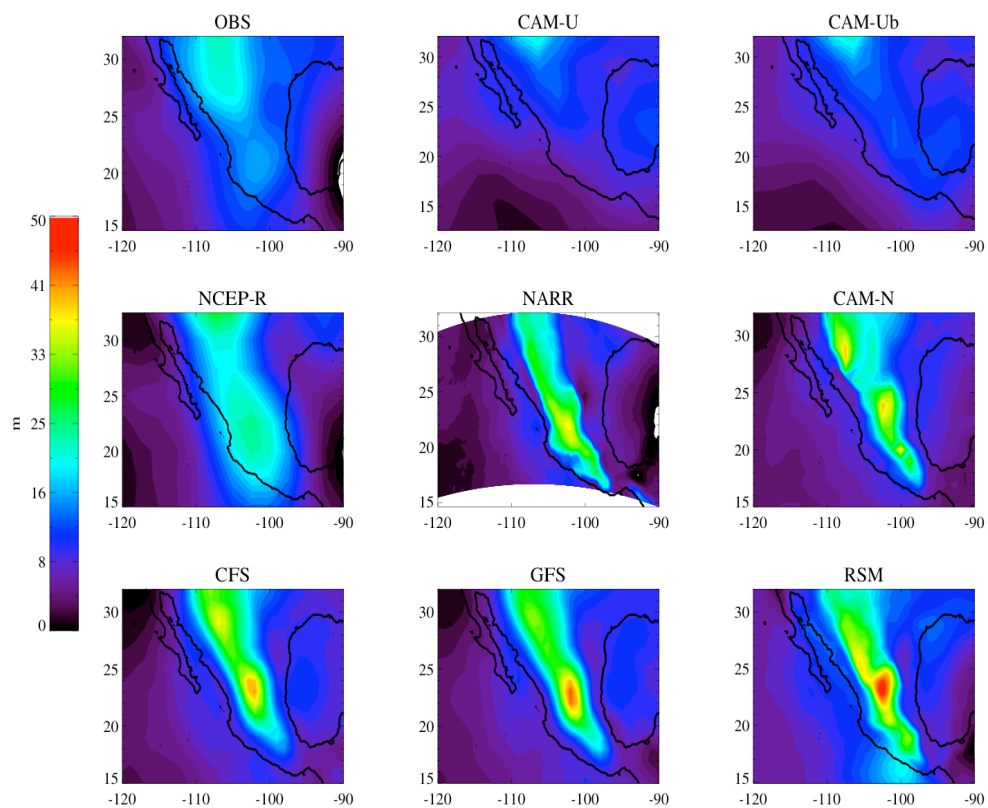
**Final Report****March 2008**

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S. Schubert, G. White

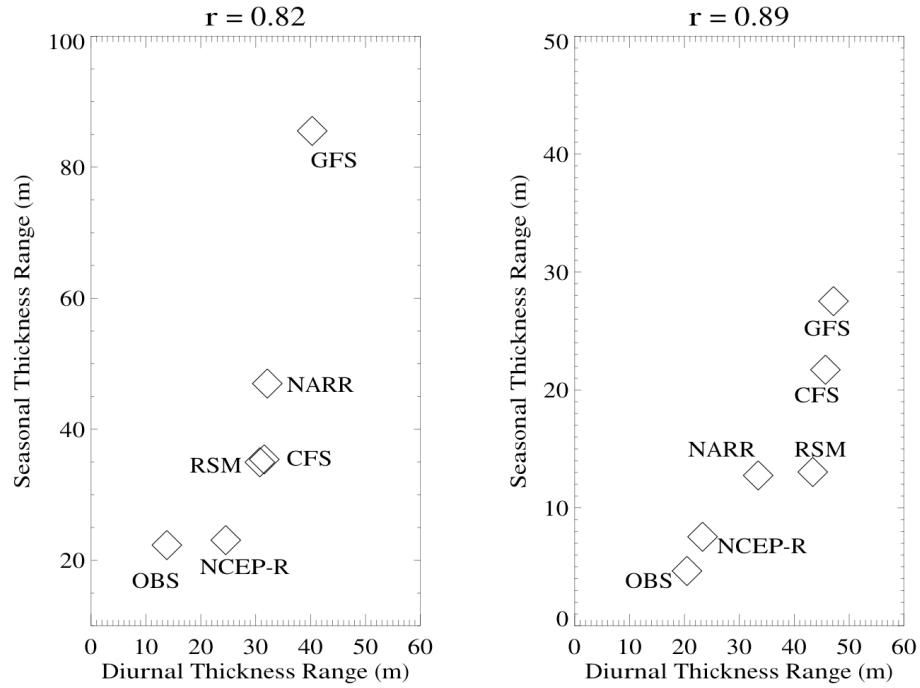
**Final report for NAME CPT activities at Univ. of Miami**

**Figures:**

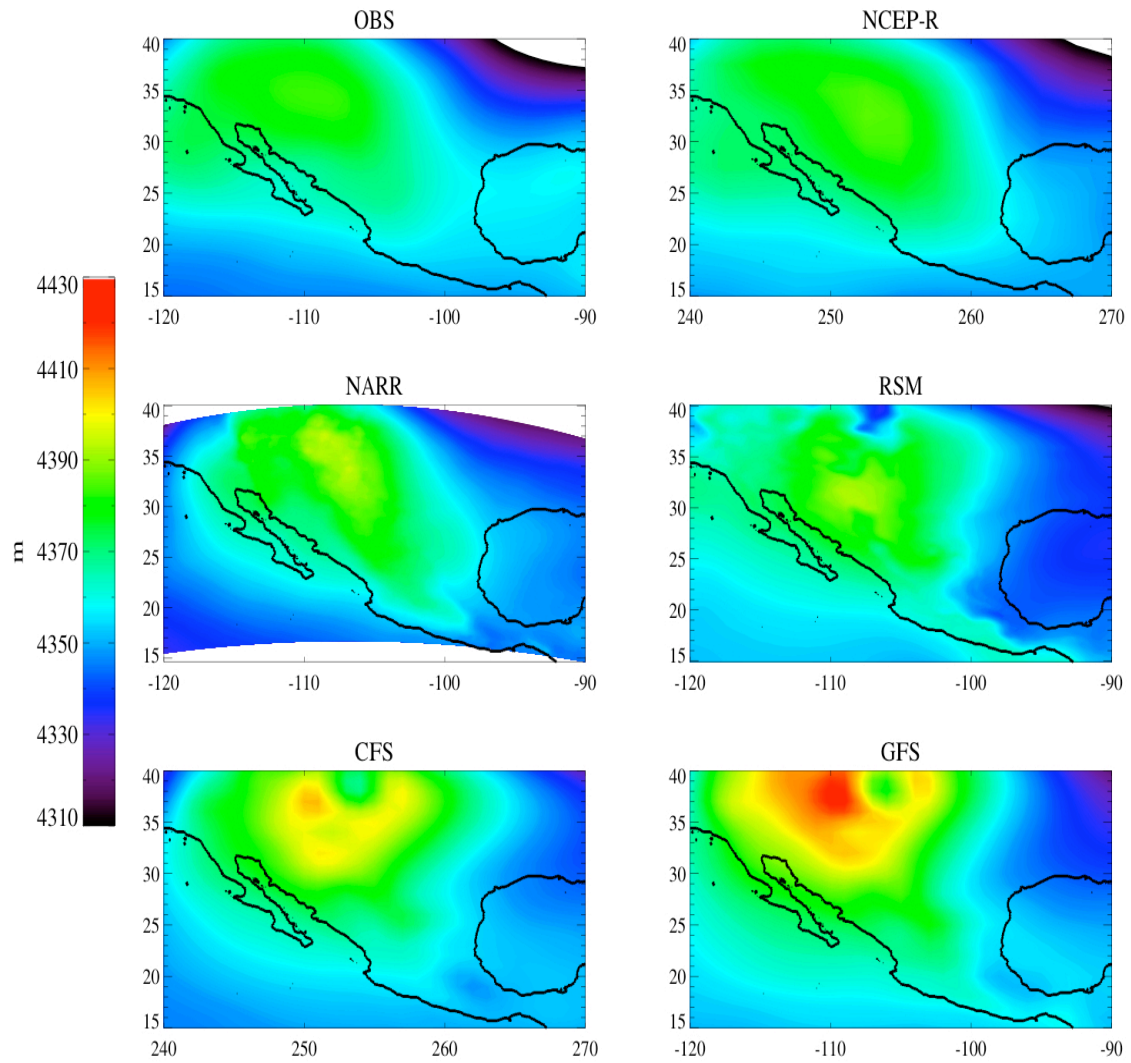
**Figure 4.** Seasonal albedo maps averaged over June-September 2004 for NAMAP2 models, NARR, and observations derived from the CERES satellite mission.



**Figure 5.** 850-500hPa geopotential thickness maps showing the diurnal difference (0z minus 12z) over Mexico for NAMAP2 models, NOAA reanalyses, and CSU observations. Plots are averaged over July and August 2004.



**Figure 6.** Scatter plot of mean diurnal thickness range (0z-12z difference averaged over June-September 2004), versus seasonal thickness range (maximum monthly mean thickness minus minimum monthly mean thickness from June-September 2004). Linear correlation coefficient is shown at top. Points are for: (left) model grid cell at the location of with the maximum seasonal mean thickness (~Arizona-Mexico border), and (right) the grid cell with maximum diurnal thickness range (central Mexico, see Fig. 2). Observations come from raw soundings at Tucson, AZ (a) and Zacatecas, MX (b).



**Figure 7.** Mean 850-500hPa thickness averaged over July-August 2004 for NAMAP2 models, NOAA reanalyses, and CSU observations. Note that the GFS model has a clear positive bias in addition to overestimating the seasonal range of thickness building.